

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	("20030046962" "3116243" "3258124" "5913952" "5937467").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/07 16:27
L2	3944	reverse and ("8"/\$.ccls. or "68"/\$.ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/07 16:30
L3	98	l2 and dewater\$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/07 16:28
L4	1	l2 and dewater\$4 and freewheel\$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/07 16:28
L5	6209	((opposite near direction) or reverse) and ("8"/\$.ccls. or "68"/\$.ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/07 16:32
L6	37	((opposite near direction) or reverse) same speed) and dewater\$4 and ("8"/\$.ccls. or "68"/\$.ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/07 16:42
L7	12	((opposite near direction) or reverse) ) and (after near dewater\$4) and ("8"/\$.ccls. or "68"/\$.ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/07 16:46
L8	1	((opposite near direction) or reverse) same separat\$4 ) and (after near dewater\$4) and ("8"/\$.ccls. or "68"/\$.ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/07 16:46
L9	24	((opposite near direction) or reverse) same separat\$4 ) and (dewater\$4) and ("8"/\$.ccls. or "68"/\$.ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/07 16:53
L10	33	((laundry or clothes) with separat\$4 ) same dewater\$4) and ("8"/\$.ccls. or "68"/\$.ccls.)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/02/07 17:07
L11	19	((laundry or clothes) with separat\$4 ) same dewater\$4)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 17:15
L12	14	"3116243"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 17:12

## EAST Search History

L13	209	((laundry or clothes) with separat\$4 ) same brack\$4	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 17:16
L14	56	((laundry or clothes) with separat\$4 ) same brack\$4 same speed	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 17:17
L15	56	((laundry or clothes) with separat\$4 ) same brack\$4 same speed	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 17:18
L16	28	((laundry or clothes) with separat\$4 ) same brak\$4 same speed	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 17:19
L17	40	((laundry or clothes) with separat\$4 ) same break\$4 same speed	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 17:24
L18	2	((laundry or clothes) with separat\$4 ) and (dewater\$4 same brak\$4 same speed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 17:27
L19	12	brak\$4 same internittent\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 17:34

## EAST Search History

L20	9751	brak\$4 same intermittent\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 18:23
L21	27	l20 and (washing machine) and drum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 17:35
L22	2	"20040154642"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 18:26
L23	2	"20040154642" and driving and control	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 18:27
L24	0	"20040154642" and driving and control and disengag\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/02/07 18:26

PAT-NO: JP401249094A  
DOCUMENT-IDENTIFIER: JP 01249094 A  
TITLE: DEHYDRATING AND WASHING MACHINE  
PUBN-DATE: October 4, 1989

INVENTOR-INFORMATION:  
NAME  
OKAZAKI, KIYOSHI

ASSIGNEE-INFORMATION:  
NAME COUNTRY  
TOSHIBA CORP N/A

APPL-NO: JP63075115  
APPL-DATE: March 29, 1988

INT-CL (IPC): D06F033/02  
US-CL-CURRENT: 68/12.27

ABSTRACT:

PURPOSE: To enable correction of a stop position to a best position, by a method wherein during completion of dehydrating operation, it is decided by a position detecting means whether a stop position is situated in a position, and when it is not stopped in a position, control is made so that a rotary drum is rotated to a given position.

CONSTITUTION: During completion of dehydrating operation, a means 15 to be detected is also stopped along with the stop of a rotary drum 4. With this state, when the means 15 to be detected does not coincide with a position detecting means 16, namely when a stop position is not a given position, the

position detecting means 16 can not detect the magnetism of the means 15 to be detected, and no detecting signal is outputted. In this case, a brake mechanism 18 of the rotary drum 4 is released by an operation control circuit 17 to intermittently energize a motor 6 in a short period. The rotary drum 4 is slowly rotated, and when the position detecting means 16 detects the magnetism of the means 15 to be detected, the rotary drum 4 is braked for a stop. This constitution causes the stop position to form a position where a work to charge a finishing agent to a finishing agent containing case 12 and a work to mount and demount a lint filter 11 are easy to make, and improves facility.

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DERWENT-ACC-NO: 1982-74688E

DERWENT-WEEK: 198236

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TITLE: Combined universal-induction motor for washing  
machine -  
has controlled acceleration by switching-in  
induction and  
series windings together

INVENTOR: BEYER, H

PATENT-ASSIGNEE: LEPPER MASCH & APP GMBH[LEPP]

PRIORITY-DATA: 1981DE-3101963 (January 22, 1981)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
DE 3101963 A	July 29, 1982	N/A
010 N/A		

INT-CL (IPC): D06F037/36

ABSTRACTED-PUB-NO: DE 3101963A

BASIC-ABSTRACT:

A revolving-drum washing machine is powered by a combined universal-induction motor which operates as a slow-running induction motor for the washing phase, and as a fast-running series-wound motor for the spin-drying phase.

The high-speed phase is preceded by a transition phase of intermittent, reversing spins to loosen the load and distribute it uniformly around the drum. The final, high-speed spin is introduced by a slow acceleration stage which is effected by switching-in the induction winding simultaneously with the series windings for 3-5 sec., thereby producing a braking effect which holds the drum speed at 80-100 r.p.m. long enough for the load to stabilise, preventing

excessive vibration from an unbalanced load.

This construction obviates the need for reduction gearing, or for a separate speed-control circuit.

TITLE-TERMS: COMBINATION UNIVERSAL INDUCTION MOTOR WASHING MACHINE  
CONTROL

ACCELERATE SWITCH INDUCTION SERIES WIND

DERWENT-CLASS: F07 X27

CPI-CODES: F03-J01;

EPI-CODES: X27-D;